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December 1963

PARTICIPATE IN ENGREAL ION REPORT

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# KURUMOCI II. II. KEPKENGINE HEST FACILITY.





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### KURUMOCH ROCKET ENGINE TEST FACILITY, USSR

#### SUMMARY

The Kurumoch Rocket Engine Test Facility, USSR, consisting of a vertical test stand and its support structures, was under construction when TALENT photogfirst seen on \_\_\_ raphy. The facility has since been observed on KEYHOLE photography. The test stand became operational prior to photography of

25X1D

25X1D

the latest coverage occurred in when the support facilities seen were complete. In addition to these completed structures, a probable second vertical test stand is under construction at the site; and other new facilities have been added or are under construction.

25X1D 25X1D

#### INTRODUCTION

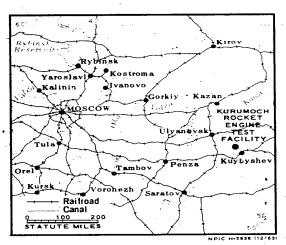


FIGURE 1. LOCATION OF KURUMOCH ROCKET ENGINE TEST FACILITY, USSR.

	The Kurumoch Rocket Engine Test Facility,
25X1D	USSR, ( is located at 53-31N
	49-49E, 8 nautical miles (nm) west-northwest of
	Kurumoch and 24 nm north-northwest of Kuyby-
25X1D	shev (Figure 1). This facility was first seen on
	TALENT photography $\underline{1}$ / and has been ob-
25X1D	served since then on4/
	KEYHOLE photography. No photographic cover-
25X,1D	age of the test facility has been obtained since
25X1T	A comparison of
	photography of this site can be found in Figure 2.
0EV4D	New structures added to this facility between
25X1D	
25X1D	New structures added to this facility between
	New structures added to this facility between and the final
25X1D 25X1D	New structures added to this facility between and the final forms of components completed during this
	New structures added to this facility between and the final forms of components completed during this períod are described and analyzed in the follow-
25X1D	New structures added to this facility between and the final forms of components completed during this períod are described and analyzed in the following section. The significance of structural
	New structures added to this facility between and the final forms of components completed during this períod are described and analyzed in the following section. The significance of structural details observed on buildings under construction

#### DESCRIPTION

The Kurumoch Rocket Engine Test Facility (Figure 3) consists of a completed vertical test stand with adjoining operational support buildings, a probable second vertical test stand under construction with adjoining operational support buildings, 3 towers which may be possible test stands under construction, 14 storage tanks, and

other support facilities. The facility is fenced and is rail and road served. Dimensions of major structures at the installation are given in the inset, Figure 3.

The completed vertical test stand (item 1, Figure 3) was under construction when first seen ☐ photography and appeared to

25X1D

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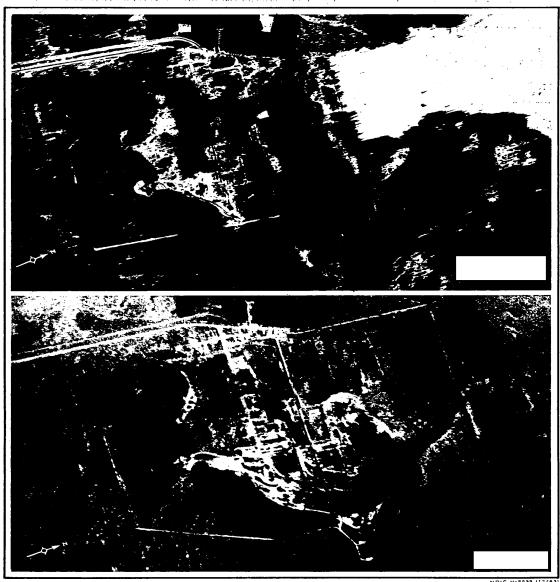


FIGURE 2. KURUMOCH ROCKET ENGINE TEST FACILITY, USSR,

25X1D

25X1D

25X1D

- 2 -

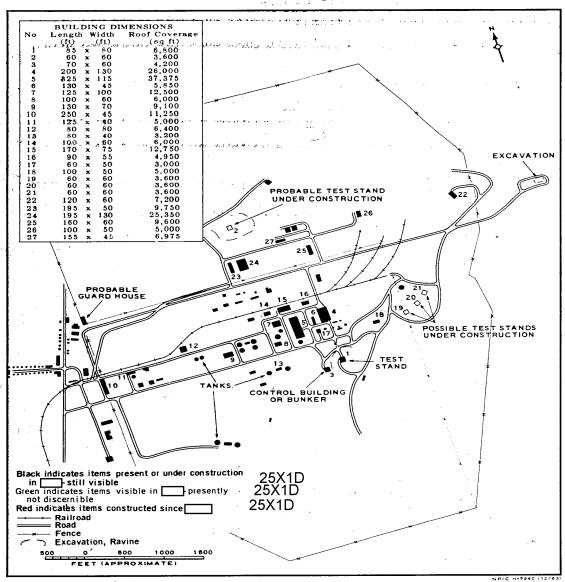


FIGURE 3. LINE DRAWING, INCLUDING DIMENSIONS AND ROOF COVERAGE OF MAJOR STRUCTURES, KURUMOCH ROCKET ENGINE TEST FACILITY, USSR.

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25X1D	be complete on photography. Blast	were added after Item 4, a fabrication or	25X1D
	marks in the snow indicate that the stand was	assembly building, is directly north of the test	:
25X1D	operational prior to photography of	stand. It consists of two north-south bays, 200 by	•
	The stand is built in a rayine southeast of the	70 feet and 200 by 60 feet, and is at least 30 feet	•
	center of the site.	high; the wider bay is directly in line with the	
25X1D	The superstructure of the test stand is ap-	approach ramp. Item 5, the largest of the six	•
,	proximately 85 by at least 80 feet, while the base	buildings, is approximately 60 feet high. This	
į	structure is the superstructure	building was in an early stage of construction in	
13	thus overhangs the base structure by at least 15	and the interior then appeared to contain	25X1D
	feet, probably toward the blast pit. The stand	three longitudinal banks of inside walls separated	
	rises at least 60 feet above an approach ramp,	by two corridors. The center bank was divided	
	giving the building an overall height of at least	into enclosed cells, and the two outer banks con-	m.,
	140 feet above the bottom of the pit. The su-	tained small bays open to the corridors. Adjoin-	
4 1 2 4 3	perstructure is enclosed, and two structural	ing this building is a probable semiburied verti-	
	members intersect at the center of the roof.	cal storage tank approximately 30 feet in diam-	
0EV4D	The base structure, under construction when	eter. Item 5 has been described as a possible	
25X1D	observed in was divided into	cold flow building. 5/6/ Item 15 was compart-	25X1D
OCVAD	three north-south bays by interior walls or	mented when seen inone section contained	
25X1D	columns, with the north side of the base enclosed.	a rounded object, possibly a horizontal tank,	
	The protruding tops of these dividers and the	approximately 40 feet long by 15 feet in diameter.	
25X1D	outer walls measured approximatelythick	Item 6, the smallest of the four older buildings,	
20/(1/0	while their northern ends appeared to be at least	is also compartmented.	
	thick. The approach ramp extends from	The probable vertical test stand under con-	
•	the test stand to the edges of the excavation and	struction (item 2) is located in an excavation at	
05V4D	is in line with the abutment structure and bridge	the edge of a ravine north of the center of the	
25X1D	piers seen in A road entering	site. The site is outside the area of the test	05V4D
ere Tiller	the pit from the northeast serves the base of the	facility which was enclosed by fence in the	25X1D
	stand.	former fence, however, was partially removed	
	Associated with the completed test stand are	and a larger area enclosed between photographic	25X1D
3	a control building or bunker and six operational	missions of The	20/(12
	support buildings (Figure 3). The control bunker	probable test stand was first seen on photography	25X1D
	(item 3) is built in the side of the excavation ap-	of, and it is still in the early stages of construction on photography. A	25X1D
	proximately 150 feet west-southwest of the test	road entering the ravine from the southwest	20,(12
25X1D	stand; only the prepared site was visible in	provides access to the base of the structure,	•
	An access road leads to the bunker from the	which is approximately 60 by 60 feet in size. A	•
	operational support area, and a bridge or flying	raised section at the edge of the excavation is	
	ramp leads to the bottom of the pit.  The six operational support buildings are	possibly an abutment.	•
	approximately 575 feet north of the test stand.	Two probable operational support buildings	•
	All six buildings appear complete; four of these	(items 23 and 24) are located about 500 feet south	
25X1D	(items 4, 5, 6, and 15) were under construction	of the new probable test stand. Item 24 is di-	
	and two smaller ones (items 16 and 17)	rectly in line with the possible abutment and the	
. 4 1	and two simulation ones (terms to did 17)		
		• ,	

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probable test stand; it is at least 30 feet high, approximately 195 feet long, and at least 95 and more likely 130 feet wide. The alignment, location, and dimensions of this structure indicate that it is probably a fabrication-type building similar to item 4. East of items 23 and 24 are two buildings (items 25 and 27) and two roughly square objects which may be associated with operational support.

Three tall structures or towers (items 19, 20, and 21) northeast of the completed test stand and on the edge of the same ravine are possibly smaller test stands; each measures approxi-

first seen on photography, and
the third was first observed on photography of
Other major changes at the rocket en-
gine test facility include the completion of
the rail spur extension past the operational
areas, extension of the perimeter fence to
enclose roughly twice the area previously en-
closed, completion of the vertical storage tanks
and service buildings observed under construc-
tion inand the erection of additional
service buildings.

mately 60 by 60 feet. Two of the towers were

25X1D

25X1D

25X1D

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PHOTOGRAPHY

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